

ABSTRACT OF THE DISCLOSURE

A card device includes a substrate having two long sides and two short sides, and a sweep-type fingerprint sensor embedded into the substrate. The sweep-type fingerprint sensor has an exposed fingerprint sensing surface, and is disposed in a rectangular low-stress region. The rectangular low-stress region has a dimension substantially smaller than or equal to 30 mm * 22 mm. The shortest distance from the low-stress region to each long side is substantially equal to 2 mm, and the shortest distance from the low-stress region to each short side is substantially equal to 2 mm.